

A List of Tennessee Ferns

W. A. ANDERSON, JR.

(Continued from p. 20)

ADIANTUM PEDATUM L.

Tipton's Sugar Cove, Cades Cove, Blount County, June 14, 1928, Anderson, 984.

Near Greystone, Greene County, June 24, 1928, Anderson and Jennison, 1143.

Roaring Fork, Gatlinburg, Sevier County, June 10, 1928, Anderson, 950.

Near Knoxville, May, 1898, Ruth.

Tullahoma, Coffee County, ———, 1867, Gattinger.

Nashville, ———, Gattinger.

Triune, Williamson County, June, 1892, Bain.

Erin, Houston County, May 24, 1920, Palmer, 17,607.

ADIANTUM CAPILLUS-VENERIS L.

The southern maidenhair has been found at several places in the Cumberland Mountains and on Lookout Mountain, but in no other parts of the state. It is a fern I have never collected, though I have seen fresh specimens brought in by other people.

Lookout Mountain, Hamilton County, Sept., 1875, Curtiss, 3709.

Jonas Bluff, Lookout Mountain, May 3, 1906, Fuller.

Near Jasper, Sequatchee Valley, July, 1892, Middleton.

PTERIDIUM LATIUSCULUM (Desv.) Hieron., var.

PSEUDOCAUDATUM (Clute) Maxon

Pteris aquilina L. var. *pseudocaudata* Clute

In the "Ferns of Tennessee" I listed *Pteridium latiusculum* and illustrated it with a drawing of *P. latiusculum* var. *pseudocaudatum*. This variety is the common form in Kentucky and Tennessee, and I confused it with the species, which I did not know at that time. Upon comparing with Gray Herbarium material I find all my

collection belongs to the variety, so assume that the material in the Tennessee herbarium is all the same.

Cold Springs Knob, Greene County, June 23, 1928, Anderson and Jennison, 1139.

Pinnacle Mountain near Greenbrier, Sevier County, Oct. 9, 1927, Anderson, 690.

Near Abram's Falls, Cades Cove, Blount County, June 15, 1928, Anderson, 1011.

Sunshine, (Kinzel Springs), Blount County, May 2, 1926, Jennison and Galyon.

Craggie Hope, Cheatham County, Aug. 20, 1922, Svenson, 342.

Along Duck River, Humphreys County, Sept. 1, 1928, Anderson, 1051.

Henderson, Chester County, and Jackson, Madison County, 1893, Bain.

POLYPODIUM VIRGINIANUM L.

Syn. *P. vulgare* of authors, not L.

Plentiful in the Great Smoky Mountains.

Tipton's Sugar Cove, Cades Cove, Blount County, June 14, 1928, Anderson, 988.

Roaring Fork, Gatlinburg, Sevier County, June 10, 1928, Anderson, 959.

Mt. Le Conte, Gatlinburg, Sevier County, May 20, 1926, W. L. Galyon.

Lookout Mountain, Hamilton County, H. W. Ravenel.

Lemon's Gap, Cocke County, Aug. 7, 1892, Ruth, 518.

White Cliff Springs, Monroe County, June 29, 1890, Scribner.

Wolf Creek, Cocke County, May 13, 1893, Kearney.

Cave Spring, Hamilton County, 1850, Gattinger.

Whiteside, Marion County, Mrs. Bennett (Gattinger's collection).

Bird Preserve, Knoxville, May 25, 1926, W. L. Galyon.

POLYPODIUM POLYPODIOIDES (L.) Watt

Syn. *P. incanum* Sw.

In Tennessee the gray polypody grows either on rocks or trees. I have seen it near Knoxville on the same rock with *Pellaea atropurpurea* and *Asplenium cryptolepis* and also growing high on a tree in the same locality.

On juniper tree, banks of Little River, near Walland, Blount County, Apr. 22, 1928, Anderson, 762.

Knoxville, Mar. 7, 1893, Kearney.

Carter County, Aug. 7, 1891, E. E. Gayle.

On tree trunk, base of bluffs, Kingston Springs, Cheatham County, Aug. 20, 1922, Svenson, 267.

On *Juniperus virginiana*, cedar glades, Lavergne, Rutherford County, Aug. 5, 1922, Svenson, 189.

Jackson, Madison County, April, —, Bain.

Hollow Rock, Carroll County, Gattinger.

On *Quercus Phellos* in swamp, Hollow Rock Junction, (now Bruceston), Carroll County, Aug. 27, 1922, Svenson, 437.

LYGODIUM PALMATUM (Bernh.) Sw.

On the Cumberland plateau, the climbing fern is locally abundant. There is one station in the Smokies, at Mr. Whittle's summer cottage, part of the way up Mt. Le Conte. The stations in Monroe County are in the Alleghany range also.

White Cliff Springs, Monroe County, July 5, 1890, Scribner.

Buckeye Station, Monroe County, Aug., 1891, P. L. Cobb.

Burnt-over ground along creek, 7 miles from Rockwood, Roane County, Cumberland Plateau, May 22, 1929, Jennison and Anderson, 1271.

Sandy soil along creek west of Daysville, Cumberland County, July 14, 1929, Anderson, Jennison and Hesler, 1388.

Piney Falls, Rhea County, Mrs. Bennett (Gattinger's collection).

OSMUNDA REGALIS L. var. SPECTABILIS (Willd.) Gray

Syn. *Osmunda regalis* of Am. authors in part.

White Cliff Springs, Monroe County, June 29, 1890, Scribner.

Fountain City, Knox County, Aug. 29, 1891, Kearney.

Swampy place on Cumberland Plateau, 5 miles from Rockwood, Roane County, May 22, 1929, Anderson and Jennison, 1268.

Tullahoma, Coffee County, Aug., 1867, Gattinger.

Jackson, Madison County, May 10, 189—, Bain.

OSMUNDA CLAYTONIANA L.

Near top of Cades Cove Mountain, (2300 ft.), Cades Cove, Blount County, May 1, 1929, Anderson and Hesler, 1196.

Roaring Fork, Gatlinburg, Sevier County (sterile), June 10, 1928, Anderson, 938.

Near top of mountain, Greystone, Greene County, June 24, 1928, Anderson and Jennison, 1065.

Lemon's Gap, Cocke County, May 19, 1893, Kearney.

OSMUNDA CINNAMOMEA L.

State line ridge, Gregory's Bald, Cades Cove, Blount County, July 6, 1929, Anderson, 1381.

Foot of Gregory's Bald, Cades Cove, Blount County, June 14, 1928, Anderson, 975.

Top of Cades Cove Mountain, Cades Cove, Blount County, May 20, 1928, Anderson, 909.

Pinnacle Mountain, near Greenbrier, Sevier County, Oct. 9, 1927, Anderson, 691.

State line ridge above Greystone, Greene County, June 23, 1928, Anderson and Jennison, 1148.

Whiteside, Marion County, July 7, 1867, Gattinger.

Walden's Ridge, Mrs. Bennett (Gattinger's collection).

Lee's Spring, Grainger County, May 17, 1927, R. G. Henderson.

Bethel, McNairy County, May —, Bain.

AZOLLA CAROLINIANA Willd.

Bradley County, 1856, Gattinger.

OPHIOGLOSSUM VULGATUM L.

In the University of Tennessee Herbarium are three sheets of *Ophioglossum* labeled "*O. vulgatum*." As I was not very familiar with this genus, I accepted these at their face value without critical examination as to the species. Two of the sheets have since been found to be *O. Engelmanni* at least in part. I have never collected any adder's tongue ferns in Tennessee.

Forked Deer Bottoms, Haywood County, June 12, 1893, Bain.

OPHIOGLOSSUM ENGELMANNI Prantl

In the Fern Bulletin (1898) Mrs. Britton mentions *O. Engelmanni* as occurring in Tennessee. Two sheets

of Tennessee specimens were found in the Gray Herbarium, and inquiries made at the New York Botanical Garden and at the University of Tennessee concerning specimens in those herbaria. Dr. Jennison, of the University of Tennessee, after critically examining the specimens there labeled *O. vulgatum*, reports that one of Gattinger's without locality but from Cedar Glades, and one from Lavergne, May 16, 1882, are *O. Engelmanni* at least in part. Dr. Rydberg writes that there are three specimens in the herbarium of the New York Botanical Garden of which two are Gattinger's, one without locality and one, collected May, 1882, of which he could not make out the locality. In the Gray Herbarium is a sheet labeled *O. vulgatum* Cedar Glades, Lavergne, May 16, 1882, by Gattinger and annotated in Mrs. Britton's handwriting, "This is also *O. Engelmanni* Prantl and adds a new state to its range." All these specimens undoubtedly represent two collections by Gattinger, one without date and one May 16, 1882. They both were from Lavergne, as "cedar glades" in Gattinger's collection always refers to that locality.

Cedar Glades, ———, Gattinger.

Lavergne, Rutherford County, May 16, 1882, Gattinger.

Cedar Glades near Lavergne, May 17, 1923, Harper.

Open woods near Knoxville, Aug. 7, 1900, Ruth, 570.

BOTRYCHIUM DISSECTUM Spreng.

Syn. *B. obliquum* Muhl. var. *dissectum* (Spreng.)

Clute.

B. dissectum grows in great profusion around Mr. Whittle's summer cottage part of the way up Le Conte. It is there associated with *B. dissectum* Spreng. var. *obliquum* (Muhl.) Clute.

Whittle's place, Gatlinburg, Sevier County, Oct. 20, 1928, Anderson, Hesler and Jennison, 1032.

Smoky Mountains, 1898, J. H. Ferriss.

BOTRYCHIUM DISSECTUM Spreng. var. OBLIQUUM
(Muhl.) Clute

Syn. *B. obliquum* Muhl.

About two miles above Mr. Whittle's place on Le Conte, there is another station where *B. dissectum* var. *obliquum* occurs. This one is in the Le Conte Creek ravine. The plants grow to huge size, several times as large as those farther down the mountain.

Whittle's place, Gatlinburg, Sevier County, Oct. 20, 1928, Anderson, Hesler and Jennison, 1033.

Le Conte, below falls, Gatlinburg, Sevier County, (a huge specimen, resembles *B. silaifolium*), Oct. 12, 1928, Anderson, 1122.

Trail to Abram's Falls, Cades Cove, Blount County, Sept. 30, 1928, Anderson, 1133.

Near Knoxville, E. S. Reynolds, Rhodora XIII: 14.

Hollow Rock Junction, (now Bruceton), Carroll County, Aug. 27, 1922, Svenson, 385.

Near McMinnville, Warren County, Rev. Robt. Gray.

Madison and Chester Counties, Aug. and Sept., 1892, Bain.

Glendale, Maury County, Sept. 7, 1867, Gattinger.

BOTRYCHIUM VIRGINIANUM (L.) Sw.

Near top of ridge, Gregory's Bald, Cades Cove, Blount County, June 14, 1928, Anderson, 978.

Trail to Abram's Falls, Cades Cove, June 15, 1928, Anderson, 994.

Knoxville, July 27, 1899, Ruth, 563.

Love's Creek, Knoxville, Apr., 1927, W. L. Galyon.

Cave Spring, Hamilton County, ———, 1859, Gattinger.

Nashville, July, 1867, Gattinger.

Joelton, Davidson County, July 16, 1922, Svenson, 86.

Hollow Rock Junction, (now Bruceton), Carroll County, Aug. 27, 1922, Svenson, 386.

Jackson, Madison County, ———, 1892, Bain.

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Since this paper was in type and after two parts of it had been published, *Trichomanes Petersii* Gray has been found in Tennessee by members of the Department of Botany, University of Tennessee. A note by Mr. Aaron J. Sharp on the discovery of this rare fern appears on page 75 of this issue of the Fern Journal.

TRICHOMANES PETERSII Gray

Tremont, Blount County, at about 1,500 feet altitude, April 11, 1931, A. J. Sharp, H. M. Jennison, Harlow Bishop.

CAMBRIDGE, MASS.

A Glimpse of Iceland

HAROLD GODDARD RUGG

Two days only for the interesting island of Iceland gave little opportunity for botanizing there. Yet in that brief time I saw a good deal of the country outside Reykjavik, the capital. First, let me tell you that Iceland is larger than Ireland, or than our own state of Kentucky. Although the Gulf tempers the climate near Reykjavik, so that last winter there were only three or four days of skating, nevertheless about one tenth of the Island is covered perpetually by snow or ice. Considering the size of Iceland, the flora is rather limited. Only sixteen varieties and forms of ferns are found. As the list is small I will give it.

Ophioglossum vulgatum L. var. *polyphyllum* A. Br.

Botrychium lunaria (L.) Sw.

Botrychium lanceolatum (Gmel.) Angstr.

Cystopteris fragilis (L.) Bernh.

Woodsia ilvensis (L.) R. Br.

Dryopteris filix-mas (L.) Schott

Dryopteris filix-mas f. *subintegrum* Döll.

Dryopteris dilatata (Hoffm.) Gray